



UNO-S2 Keypad

Installation Manual



R SAFETY INFORMATION

UNO-S2 Keypad

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance in the operating instructions should be adhered to.
4. Follow Instructions - All operating and user instructions should be followed.
5. Water and Moisture - The appliance should not be used near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
6. Wall or ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
7. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
8. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
9. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
10. Grounding or Polarization - Precaution should be taken so that the grounding or polarization means of an appliance is not defeated.
11. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, receptacles, and the point where they exit from the appliance.
12. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
13. Damage Requiring Service - The appliance should be serviced by qualified service personnel when: the power supply cord or the plug has been damaged; or objects have fallen, liquid has been spilled into the appliance; or the appliance has been exposed to rain; or the appliance does not appear to operate normally; or the appliance has been dropped or the enclosure is damaged.
14. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Precautions:

1. Power - **WARNING: BEFORE TURNING ON THE POWER FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.**
All models are designed for use with either AC120V, 60Hz or AC240, 50Hz voltages. The unit will autoswitch to either of these voltages.
2. Do Not Touch The UNO-S2 With Wet Hands - Do not handle the unit or power cord when your hands are wet or damp. If water or any other liquid enters the cabinet, take the UNO-S2 to a qualified service person for inspection.
3. Care - Periodically wipe off the front and side panels of the cabinet with a soft cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since this may damage the finish or remove the panel lettering.

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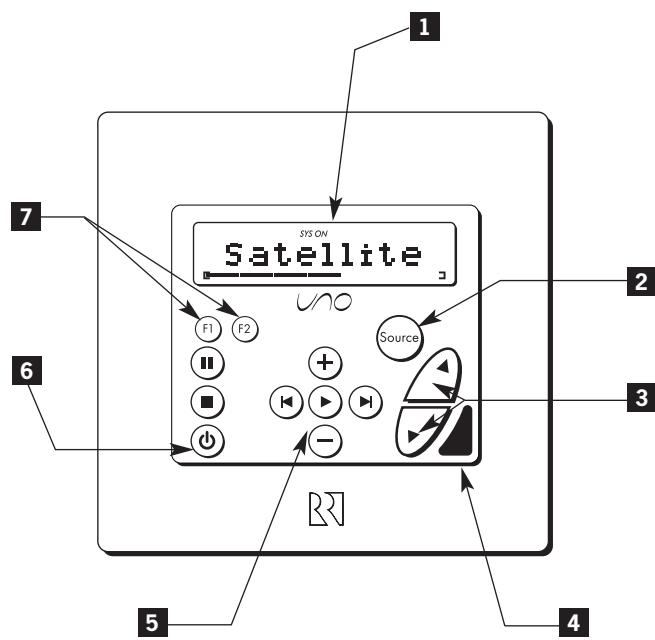
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UNO-S2 Keypad Front Panel



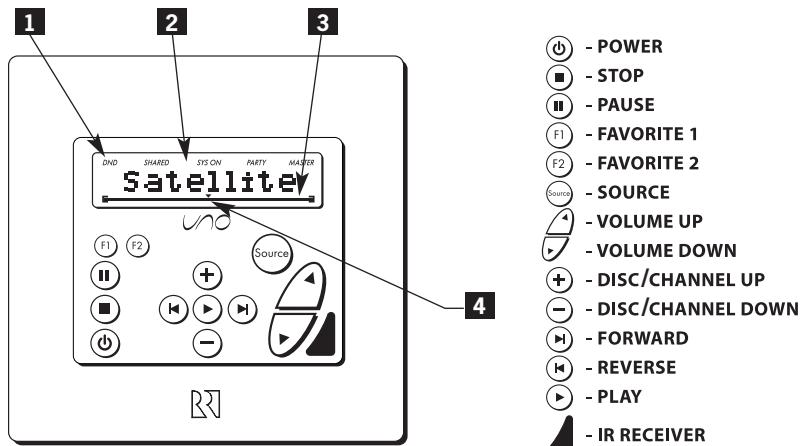
USER GUIDE

UNO-S2 Keypad Front Panel

- 1** LCD PANEL - 12-character backlit display shows status of the room, source, volume, and more
- 2** SOURCE SELECT BUTTON - Scrolls through the sources directly connected to the CAV6.6/CAM6.6. Press and hold brings up the USER MENU for Loudness, Bass, Treble, etc.
- 3** VOLUME UP/DOWN BUTTONS - Raises and lowers the volume for the room
- 4** IR RECEIVER - Receives IR signals and passes them to the controller and source equipment. Also used when operating the UNO Keypad by using the SRC2 remote
- 5** COMMAND KEYS - Pressing the command keys controls the source equipment
- 6** POWER BUTTON - Turns room ON or OFF when pressed once, press and hold a second time will turn on or off all CAV6.6/CAM6.6 rooms
- 7** F1 AND F2 BUTTONS - Selects Favorite 1 or Favorite 2 - preset user-selected favorite settings per room

USER GUIDE

UNO-S2 Keypad Operation



1 MODE:

"DND"- Do Not Disturb
"SHARED"- Same source selected in multiple rooms
"SYS ON"- Indicates system on
"PARTY"- Party Mode enabled
"MASTER"- Master Keypad in Party Mode

2 12-character display

3 Volume Indicator

4 Indicates the middle of setting range

USER GUIDE

UNO-S2 Keypad User Menu

Zone On/Off

Press and release  to turn on the UNO System Keypad. This also turns on the corresponding CAV6.6/CAM6.6's room, and any presets previously assigned will be activated, including settings for bass, volume, last source selected, etc. Press and release  to turn off the UNO System Keypad. This will also put the corresponding CAV6.6/CAM6.6's room into a standby state.

System All On/Off

An "All On" command is issued by pressing  and holding for 3 seconds, after an initial room has been turned on. An "All Off" command can be issued to all rooms by pressing and holding  after the room has been turned off.

System On Indicator

When the room is off, but the system is on in another room,  is illuminated by a green backlight and the "SYS ON" icon

remains visible.

Source Select Button

 scrolls through the six A/V source inputs and the Aux source. To change sources, press and release . As the sources are sequentially selected, each source's name appears on the keypad LCD panel. When a source is selected in more than one room, the "SHARED" icon will appear on all UNO Keypads using that source.  is also used to enter the User Menu with a press and hold action. (See next page for User Menu)

Volume Up/Down Buttons

The room's audio output is adjusted using



F1 and F2 Buttons

The  and  buttons are user favorite presets. These presets can be selected at any time to recall source selection, volume, favorite channel, disc, etc. To store a favorite preset: first, adjust the room settings and select a source to be stored.

continued

USER GUIDE

UNO-S2 Keypad User Menu

Next, press and hold the desired **F1** or **F2** button until **SAVED** is displayed on the LCD panel. Now a press and release of the button will recall the favorite preset. To set a favorite numbered disc or channel, use **+** or **-** to select a disc or channel (e.g., channel 45). Wait for the keypad to show the source name, then press and hold the F1 or F2 within 15 seconds of setting the numeric selection to save the setting.

Command Keys

The command keys allow control of the selected source at the UNO Keypad. The command keys are activated with a press and release, or press and hold to access secondary functions.



UNO-S2 User Menu

The User Menu allows the user to adjust the audio properties and control functions of a particular room.

The following keys are used to navigate and make changes while using the User Menu:

To enter the User Menu, press and hold  during normal operation.

To exit the User Menu, press and release .

⊕ Adjust feature setting (increment).

⊖ Adjust feature setting (decrement)

▶ Go to next feature.

 Go to previous feature

- ▶ View current feature setting

The following features make up the User Menu:

BASS TREBLE LOUDNESS

BALANCE TURN ON VOL BG

COLOR DO NOT DISTRB PARTY

MODE FRONT ALIGN

USER GUIDE

UNO-S2 Keypad Settings

Feature and Setting:

- 1. BASS** -10 < Bass:Flat > +10
- 2. TREBLE** -10 < Treble:Flat > +10
- 3. LOUDNESS** (more bass, fuller sound)
On or Off
- 4. BALANCE** Left -10 < Center > Right +10
- 5. TURN ON VOL** (default room volume level)
0 to 100
- 6. BG COLOR** (keypad background light)
Amber or Green or Off

7. DO NOT DSTRB - On or Off (default)

Do Not Disturb means do not disturb this room or selected source. This stops pages from being sent to this room, stops an "All Off," "All On" or Party Mode command from affecting this room. When another UNO Systems Keypad selects the same source, a DND icon will appear alerting the user the source is in Do Not Disturb mode.

8. PARTY MODE - Master (Enable/Disable)

When in "PARTY MODE" the system is primarily controlled by a "MASTER" Keypad. Party Mode links all rooms to the same source which is selected by the Master Keypad

room. Any keypad in the system can become a Master Keypad (if enabled) but only one Master Keypad may exist at a time in Party Mode. Selecting Master Keypad mode from another keypad will transfer Master Keypad control to that room and release it from the first. When the source selected in the Master Keypad room is changed then the source for all rooms changes as well.

Volume level changes at the Master Keypad will be reflected in all rooms in Party Mode. Non-Master zones in Party Mode can temporarily override Master Keypad volume level adjustments for their particular room preference. F1 and F2 favorite presets selected from the Master Keypad will be enabled in all rooms in Party Mode. Master Keypad will not change Bass, Treble, or Loudness adjustments for any other rooms other than the Master Keypad room. Every other keypad will still operate its respective bass, treble, balance and loudness adjustments for that room.

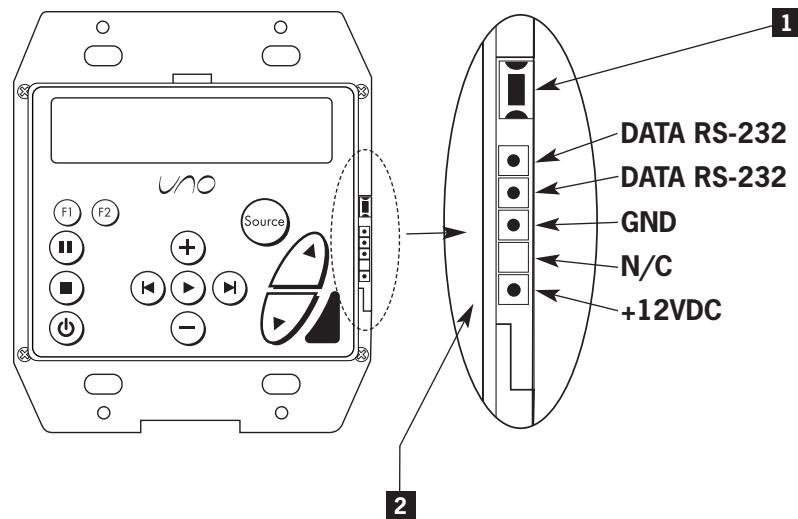
9. FRONT (AUX) A/V IN - Enabled/Disabled

Allows the system to select a seventh source option through the controller's front panel AUX connection for use with camcorders, game consoles, etc.



INSTALLER GUIDE

UNO-S2 Keypad Update Port

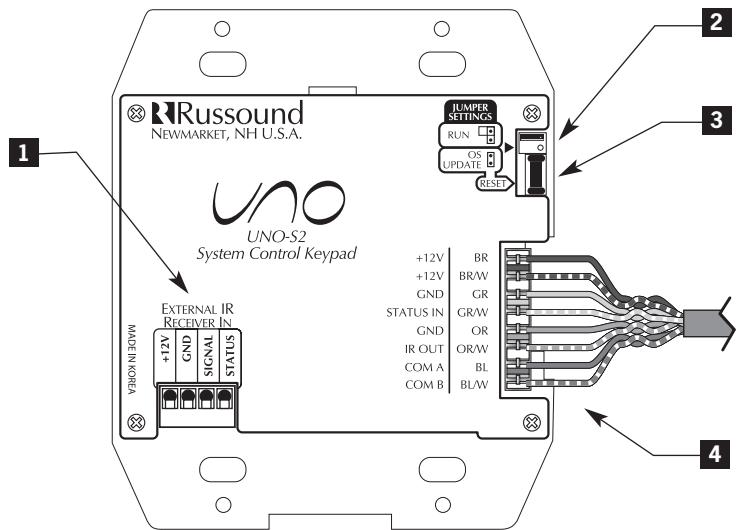


1 SETUP BUTTON - Activates Installer Setup Mode for the UNO-S2 keypad

2 OS UPDATE PORT - Port used for UNO keypad OS software updates

INSTALLER GUIDE

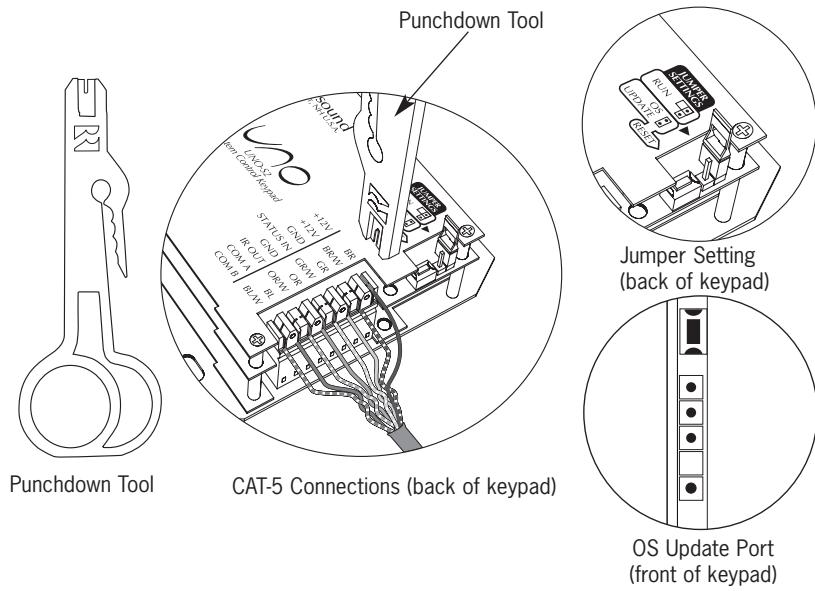
UNO-S2 Keypad Rear Panel



- 1** EXTERNAL IR RECEIVER IN CONNECTOR - Connection for external IR Receiver
- 2** OS UPDATE JUMPER - Selects "Run" or "OS Update" mode
- 3** RESET BUTTON - Reset whenever changing from RUN to OS update
- 4** 110 PUNCHDOWN CONNECTOR - Termination for CAT-5 connection between the UNO-S2 Keypad and the CAV6.6/CAM6.6 controller

R INSTALLER GUIDE

UNO-S2 Keypad Connections



INSTALLER GUIDE

UNO-S2 Keypad Connections

CAT-5 Connection

The UNO-S2 Keypad uses a 110-punchdown terminal to provide a simple installation and strong connection for CAT-5 cable's eight conductors.

Punchdown terminals require the use of a punchdown tool which has been provided with the keypad kit. Attach the CAT-5 cable to the 110-punchdown terminal on the UNO-S2 Keypad as shown, matching the conductor colors to the connection color guide. The keypad will not operate properly if the terminations deviate from the required connection order.



Caution

Take care when using an impact 110 punchdown tool, as this may overspread the contact points. Use of the impact tool may propel stray bits of wire and jacket into the keypad's chassis and possibly cause a short in the circuitry. Gently shake or blow air through the keypad chassis to remove stray wire before the keypad is installed into the junction box.

OS Update Port

The OS Update Port is used to update the UNO-S2 Keypad operating system software in the future. When an update is released, it will be available online through the Document Center at www.russound.com. Look for the Technical Documents under Multi-source/Multi-room products. The Programming Cable is available from Russound, Part #2500-121036.

Jumper Setting

The jumper settings on the back of the UNO-S2 Keypad can be set for "Run" and "OS Update." The jumper setting must be in the "Run" position before the keypad is mounted into the junction box, and must remain set in "Run" to operate the keypad. The jumper will be set to "OS Update" only while updating the keypad's operating systems.



INSTALLER GUIDE

UNO-S2 Keypad Diagnostics Menu

The Diagnostics Menu allows the installer to run a diagnostic check on the keypad and to verify the firmware version. The Diagnostics Menu also contains the update firmware procedure for updating the UNO-S2's firmware.

To access the Diagnostics Menu, press and hold the Setup button on the right side of the keypad until "DIAGNOSTICS" appears on

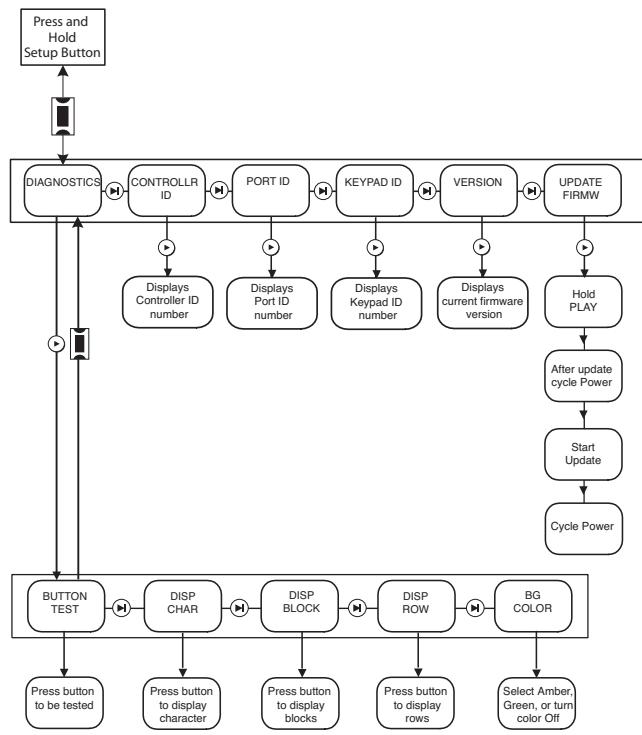
the display. The menus are outlined in the diagram on the next page.

When finished, press and release the Setup button again (except for the Update Firmware where the power must be cycled).

Note: Do not change Controller ID settings in this menu. Controller ID is set in the Controller Setup Menu of the controller only.

INSTALLER GUIDE

UNO-S2 Keypad Diagnostics Menu



RUNO-S2 Keypad Firmware Update

Note: When a firmware update is released, it is available online at the Document Center on www.russound.com, in Technical Documents under Multi-zone products. The firmware update procedure may be modified, so always check for the latest version.

Requirements:

1. PC computer running Windows 95, 98, ME, NT, 2000, XP operating system
2. Available DB-9 serial RS-232 data port
(baud rate= 38400, data bits = 8, no parity, 1 stop bit, no flow control)
3. UNO serial Programming Cable (Russound P/N 2500-121036)
4. Flash Magic - Philips IC update application (Flash Magic can be downloaded for free at:
<http://www.esacademy.com/software/flashmagic/flashmagic.exe>)

Note: the same A/C power circuit should be used for the keypad/sys-

tem and the PC. Otherwise a ground loop may affect proper data transfer.

Update Procedure:

Two OS update methods are available: A and B.

Method A enters the OS Update mode through the keypad's Diagnostics Menu and requires no access to the rear panel of the keypad.

Method B enter the OS Update mode by repositioning a jumper on the rear panel of the keypad.

Method A:

Enter the Diagnostics Menu by holding the "Setup" button for approximately 4 seconds until "Diagnostics" appears on the display. The Setup button is located behind the trim cover plate on the right hand side of the keypad above the OS Update port.

Once in the Diagnostics Menu, press the left or right arrow key until "UPDATE FIRMW" is displayed. Press the "Play" key to enter the menu.

INSTALLER GUIDE

UNO-S2 Keypad Firmware Update

Then press and hold the “Play” key for approximately 2 seconds until “Start Update” is displayed. Now the keypad is ready for update.

Method B:

Move the OS Update jumper on the rear panel of the keypad to the Update position (on both pins).

Press the Reset button located next to the OS update jumper.

At this point, the display will be backlit and blank but the buttons will be dark.

Method A and B:

Start the Flash Magic application. If error messages appear, they are typically generated due to communication problems.

Connect the UNO Programming Cable between the PC COM port and the keypad Update port.

Verify all connections.

Flash Magic Required Settings:

Section 1:

COM Port: = COM port connected to

on PC

Baud Rate: = 38400

Device: = XA-G49

Oscillator Freq. (MHz): = 12.288

Section 2:

“Erase blocks 0-4” should be highlighted

Note: Check “Erase all Flash + Security.” Also un-check “Set Security Bit 1-3” found in Section 4.

Section 3:

Click “Browse” button to select the new .hex file to be used.

Section 5:

Click the “Start” button to begin firmware update. The status is shown at the bottom of the window.

Completion:

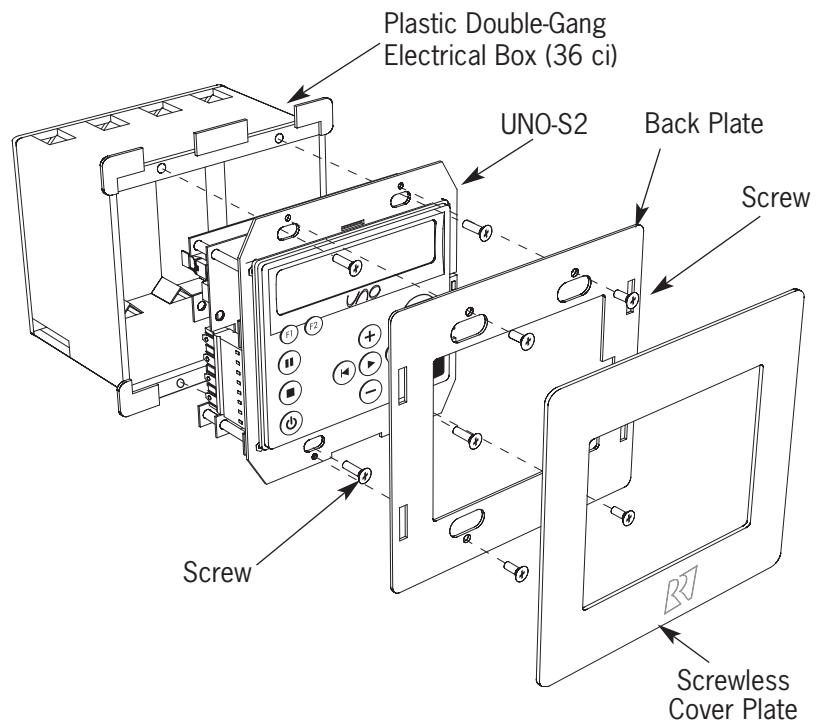
Disconnect the Programming Cable from the keypad and the PC.

(Method B: Re-position the OS Update jumper to Run.)

Cycle main power off and on.

R INSTALLER GUIDE

UNO-S2 Keypad Location



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UNO-S2 Keypad Location

Installation Location

The best infrared remote performance is achieved with the keypad installed away from any direct sunlight, plasma TV, and low voltage lighting controls. Also consider convenience when choosing a location.

Choose a place that is easily seen from the position where a person is most likely to be located.

Check whether or not you can route the wire to the location you have chosen.

Keypad Installation

To install a double-gang keypad, you will need to use a 36 ci UL/CSA approved plastic double-gang electrical box.

Route CAT-5 wire to the junction box from the CAV6.6/CAM6.6.

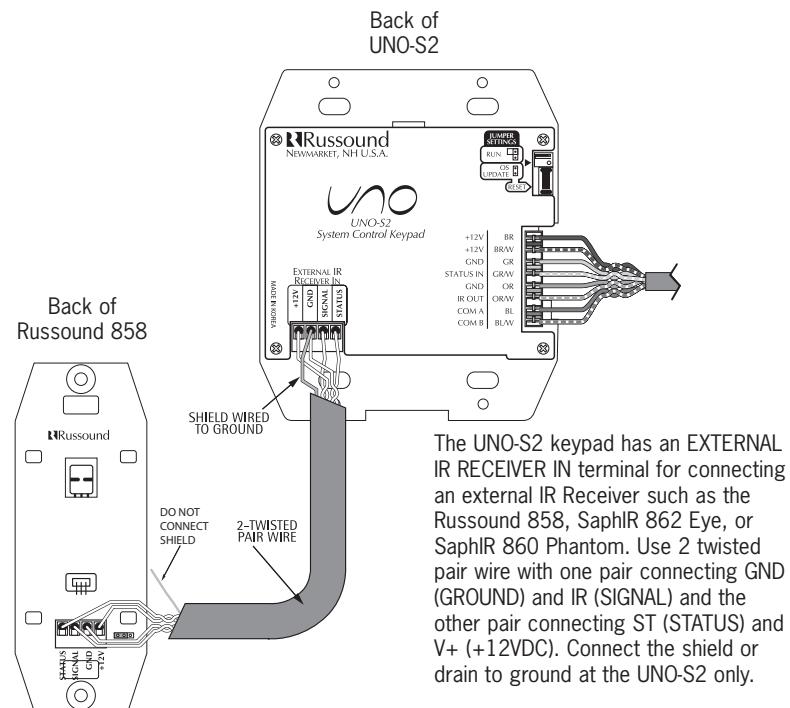
Use the supplied 110 punchdown tool to connect each wire to its corresponding color labeled on the punchdown terminal (See page 12 for details).

Ensure jumper setting on the keypad is in the "RUN" position.

Mount the keypad in the electrical box and attach the cover plate. Repeat the steps until all keypads are installed.

R INSTALLER GUIDE

IR Receiver Connection



TECHNICAL SPECIFICATIONS



UNO-S2 Keypad Specifications

Dimensions: 3.65"W x 1.125"D x 4.3"H
(9.2 x 10.9 x 2.8 cm)
Fits 2-Gang UL/CSA Approved Work Box

Weight: 9 oz. (255 g)

Power Requirements: 12 VDC 180mA

CAT-5 Connection: 110 punchdown



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R WARRANTY

Warranty Repair

The Russound UNO-S2 is fully guaranteed against all defects in materials and workmanship for two (2) years from the date of purchase. During this period, Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor.

For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission.

Accidental damage and shipping damage are not considered defects, nor is damage resulting from abuse or from servicing by an agency or person not specifically authorized in writing by Russound.

This Warranty does not cover:

- Damage caused by abuse, accident, misuse, negligence, or improper installation or operation
- Power surges and lightning strikes
- Normal wear and maintenance
- Products that have been altered or modified
- Any product whose identifying number, decal, serial number, etc. has been altered, defaced or removed

WARRANTY

Russound sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the unit in a corrugated container with at least three (3) inches of resilient material to protect the unit from damage in transit.

Before returning a unit for repair, call Russound at (603) 659-5170 for a Return Authorization number. Write this number on the shipping label and ship to:

Russound

ATTN: Service ,5 Forbes Road, Newmarket, NH 03857

Due to continual efforts to improve product quality as new technology and techniques become available, Russound/FMP, Inc. reserves the right to revise system specifications without notice.



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